

PCT09

RAW SEQUENCE LISTING

DATE: 09/13/2001

PATENT APPLICATION: US/09/914,213

TIME: 17:12:22

Input Set : A:\394246_1.txt

Output Set: N:\CRF3\09132001\I914213.raw

4 <110> APPLICANT: Case Western Reserve University, School of Medicine
 6 <120> TITLE OF INVENTION: Enhancers of CFTR Chloride Channel
 7 Function
 9 <130> FILE REFERENCE: 03037.86704
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/914,213
 C--> 12 <141> CURRENT FILING DATE: 2001-08-23
 14 <150> PRIOR APPLICATION NUMBER: 60/121,495
 15 <151> PRIOR FILING DATE: 1999-02-24
 17 <160> NUMBER OF SEQ ID NOS: 5
 19 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 18
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
 27 Gly Leu Glu Ile Ser Glu Glu Ile Asn Glu Glu Asp Leu Lys Glu Cys
 28 1 5 10 15
 29 Phe Phe
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 22
 34 <212> TYPE: PRT
 35 <213> ORGANISM: Homo sapiens
 36 <400> SEQUENCE: 2
 38 Gly Leu Glu Ile Ser Glu Glu Ile Asn Glu Glu Asp Leu Lys Glu Cys
 39 1 5 10 15
 40 Phe Phe Asp Asp Met Glu
 41 20
 43 <210> SEQ ID NO: 3
 44 <211> LENGTH: 559
 45 <212> TYPE: PRT
 46 <213> ORGANISM: HSV-1
 48 <400> SEQUENCE: 3
 49 Met Ala Arg Phe His Arg Pro Ser Glu Asp Glu Asp Asp Tyr Glu Tyr
 50 1 5 10 15
 51 Ser Asp Leu Trp Val Arg Glu Asn Ser Leu Tyr Asp Tyr Glu Ser Gly
 52 20 25 30
 53 Ser Asp Asp His Val Tyr Glu Glu Leu Arg Ala Ala Thr Ser Gly Pro
 54 35 40 45
 55 Glu Pro Ser Gly Arg Arg Ala Ser Val Arg Ala Cys Ala Ser Ala Ala
 56 50 55 60
 57 Ala Val Gln Pro Ala Ala Arg Gly Arg Asp Arg Ala Ala Ala Gly
 58 65 70 75 80
 59 Thr Thr Val Ala Ala Pro Ala Ala Ala Pro Ala Arg Arg Ser Ser Ser
 60 85 90 95
 61 Arg Ala Ser Ser Arg Pro Pro Arg Ala Ala Ala Asp Pro Pro Val Leu
 62 100 105 110
 63 Arg Pro Ala Thr Arg Gly Ser Ser Gly Gly Ala Gly Ala Val Ala Val

ENTERED

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64          115          120          125
65 Gly Pro Pro Arg Pro Arg Ala Pro Pro Gly Ala Asn Ala Val Ala Ser
66      130          135          140
67 Gly Arg Pro Leu Ala Phe Ser Ala Ala Pro Lys Thr Pro Lys Ala Pro
68 145          150          155          160
69 Trp Cys Gly Pro Thr His Ala Tyr Asn Arg Thr Ile Phe Cys Glu Ala
70          165          170          175
71 Val Ala Leu Val Ala Ala Glu Tyr Ala Arg Gln Ala Ala Ala Ser Val
72          180          185          190
73 Trp Asp Ser Asp Pro Pro Lys Ser Asn Glu Arg Leu Asp Arg Met Leu
74          195          200          205
75 Lys Ser Ala Ala Ile Arg Ile Leu Val Cys Glu Gly Ser Gly Leu Leu
76      210          215          220
77 Ala Ala Ala Asn Asp Ile Leu Ala Ala Arg Ala Gln Arg Pro Ala Ala
78 225          230          235          240
79 Arg Gly Ser Thr Ser Gly Gly Glu Ser Arg Leu Arg Gly Glu Arg Ala
80          245          250          255
81 Arg Pro Met Thr Ser Arg Arg Ser Val Lys Ser Gly Pro Arg Glu Val
82          260          265          270
83 Pro Arg Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met
84          275          280          285
85 Ala Ser Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln
86          290          295          300
87 Thr Arg Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu
88 305          310          315          320
89 Ser Asp Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His
90          325          330          335
91 Pro Glu Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser
92          340          345          350
93 Gly Pro Gly Pro Ala Arg Ala Pro Pro Pro Ala Gly Ser Gly Gly
94          355          360          365
95 Ala Gly Arg Thr Pro Thr Thr Ala Pro Arg Ala Pro Arg Thr Gln Arg
96          370          375          380
97 Val Ala Thr Lys Ala Pro Ala Ala Pro Ala Ala Glu Thr Thr Arg Gly
98 385          390          395          400
99 Arg Lys Ser Ala Gln Pro Glu Ser Ala Ala Leu Pro Asp Ala Pro Ala
100          405          410          415
101 Ser Thr Ala Pro Thr Arg Ser Lys Thr Pro Ala Gln Gly Leu Ala Arg
102          420          425          430
103 Lys Leu His Phe Ser Thr Ala Pro Pro Asn Pro Asp Ala Pro Trp Thr
104          435          440          445
105 Pro Arg Val Ala Gly Phe Asn Lys Arg Val Phe Cys Ala Ala Val Gly
106          450          455          460
107 Arg Leu Ala Ala Met His Ala Arg Met Ala Ala Val Gln Leu Trp Asp
108 465          470          475          480
109 Met Ser Arg Pro Arg Thr Asp Glu Asp Leu Asn Glu Leu Leu Gly Ile
110          485          490          495
111 Thr Thr Ile Arg Val Thr Val Cys Glu Gly Lys Asn Leu Leu Gln Arg
112          500          505          510

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113 Ala Asn Glu Leu Val Asn Pro Asp Val Val Gln Asp Val Asp Ala Ala
 114 515 520 525
 115 Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr Glu Arg Pro
 116 530 535 540
 117 Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro Arg Arg Pro Val Glu
 118 545 550 555

120 <210> SEQ ID NO: 4

121 <211> LENGTH: 27

122 <212> TYPE: PRT

123 <213> ORGANISM: Artificial Sequence ✓

125 <220> FEATURE:

126 <223> OTHER INFORMATION: membrane permeating peptide ✓

128 <400> SEQUENCE: 4

129 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu
 130 1 5 10 15

131 Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
 132 20 25

134 <210> SEQ ID NO: 5

135 <211> LENGTH: 16

136 <212> TYPE: PRT

137 <213> ORGANISM: Artificial Sequence ✓

139 <220> FEATURE:

140 <223> OTHER INFORMATION: membrane permeating peptide ✓

142 <400> SEQUENCE: 5

143 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
 144 1 5 10 15

VERIFICATION SUMMARY

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DATE: 09/13/2001

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Input Set : A:\394246_1.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

094246_1.txt